

## CLAIMS

What is claimed is:

1. A method of generating a decentralized model on a computer network,  
comprising the steps of:
  - 5 generating data objects and/or function objects;  
publishing references to the data objects and/or the function objects;  
subscribing to the data objects and/or the functions by creating  
relationships between the data objects and/or the function objects through  
referencing the data objects and/or the function objects within the function  
10 objects, thereby linking the data objects and/or the function objects, wherein  
networks of linked data objects and/or function objects emerge;  
sending messages to referencing data objects and/or function objects  
when referenced data objects and/or referenced function objects change;  
solving the functions when the messages are received;
  - 15 storing the data objects and/or the function objects in a distributed  
manner across multiple computing devices on a computer network; and  
wherein the relationships between the data objects and/or function  
objects are created without using a single coordinating computing device, or are  
created using multiple coordinating computing devices on the computer  
20 network.
2. The method of Claim 1 wherein at least a part of the configuration of the  
networks of linked data objects and/or function objects is predefined and used to  
determine which data objects and/or function objects are generated on which of  
the computing devices in the computer network.

3. The method of Claim 1 wherein a user interface is defined that displays the data objects and/or function objects on a computing device on the computer network using a client process that communicates with a server process wherein the data objects and/or function objects can be viewed on any computing device  
5 connected to the computer network.
4. The method of Claim 1 wherein the data objects and/or function objects are stored in logical groups.
5. The method of Claim 4 wherein the logical groups are defined by geography, business organization or site.
- 10 6. The method of Claim 1 wherein the references to the data objects and/or function objects are published using electronic media, print media or human conversation.
7. The method of Claim 6 wherein the electronic media is indexed and searchable.
8. The method of Claim 1 wherein the step of generating the data objects and/or  
15 function objects provides an interface mapping for data objects and/or function objects stored in application programs, databases or computer code libraries.
9. The method of Claim 1 wherein the function objects are implemented by computer code that is complied, dynamically linked and evaluated at runtime.
10. The method of Claim 1 wherein the function objects are implemented by  
20 computer code that is interpreted and evaluated at runtime.

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created using multiple coordinating computing devices on the computer network.

15. An apparatus for generating a decentralized model on a computer network, comprising:
- 5           a means for generating data objects and/or function objects;  
          a means for publishing references to the data objects and/or the function objects;  
          a means for subscribing to the data objects and/or the functions by creating relationships between the data objects and/or the function objects through referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;  
          a means for sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;  
10           a means for solving the functions when the messages are received;  
          a means for storing the data objects and/or the function objects in a distributed manner across multiple computing devices on a computer network;  
          and  
          wherein the relationships between the data objects and/or function  
20           objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.
16. A computer program product comprising:
- 25           a computer usable medium for generating a decentralized model on a computer network;  
          a set of computer program instructions embodied on the computer usable medium, including instructions to:

generate data objects and/or function objects;  
publish references to the data objects and/or the function objects;  
subscribe to the data objects and/or the functions by creating  
relationships between the data objects and/or the function objects through  
5 referencing the data objects and/or the function objects within the function  
objects, thereby linking the data objects and/or the function objects, wherein  
networks of linked data objects and/or function objects emerge;  
send messages to referencing data objects and/or function objects when  
referenced data objects and/or referenced function objects change;  
10 solve the functions when the messages are received;  
store the data objects and/or the function objects in a distributed manner  
across multiple computing devices on a computer network; and  
wherein the relationships between the data objects and/or function  
objects are created without using a single coordinating computing device, or are  
15 created using multiple coordinating computing devices on the computer  
network.

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